

## **ABSTRACT**

A method for testing floating point hardware in a processor while executing a computer program is disclosed. The method includes executing a first set of code of the computer program without employing the floating point hardware. The first set of code has a first floating point operation, thereby obtaining an emulated result. The method also includes executing the first floating point instruction utilizing the floating point hardware, thereby obtaining a hardware-generated result. The method also includes comparing the emulated result with the hardware-generated result.